

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/000117

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 C07K 19/00, C12N 15/00, C12N 15/48**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C07K 19/00, C12N 15/00, C12N 15/48, C07K 14/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

NCBI PubMed, Esp@cenet, CA "fusion protein, HIV transcription repressor, artificial zinc finger, Tat mutant (TatdMt), POZ domain"

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 2002/085948 A1 (Hur M.W. & Chong D.L.) 31 OCTOBER 2002 See the whole document	12, 14-16 1-8, 10-11
Y	WO 2003/016571 A1 (TOOLGEN INC.) 27 FEBRUARY 2003 See the whole document	1-8, 10-11
Y	LEE D.K. et al., 'POZ domain transcription factor, FBI-1, represses transcription of ADH5/FDH by interacting with the zinc finger and interfering with DNA binding activity of Sp1', In: J. Biol. Chem., 2002, Vol. 277(30), pp. 26761-26768 See the whole document	1-8, 10-11
Y	BAE K.H. et al., 'Human zinc fingers as building blocks in the construction of artificial transcription factors', In: Nat. Biotechnol., 2003, Vol. 21(3), pp. 275-280 See the whole document	1-8, 10-11
A	FRAISIER C. et al., 'Inhibition of Tat-mediated transactivation and HIV replication with Tat mutant and repressor domain fusion proteins' In: Gene Therapy, 1998, Vol. 5, pp. 946-954 See the whole document	1-16

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

20 OCTOBER 2004 (20.10.2004)

Date of mailing of the international search report

**21 OCTOBER 2004 (21.10.2004)**

Name and mailing address of the ISA/KR

Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

CHO, YOUNG GYUN

Telephone No. 82-42-481-8132



## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/000117

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	REYNOLDS L. et al., 'Repression of the HIV-1 5' LTR promoter and inhibition of HIV-1 replication by using engineered zinc-finger transcription factors', In: PNAS, 2003, Vol. 100(4), pp. 1615-1620. See the whole document	1-16

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/000117

## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

☒

a sequence listing

☐

table(s) related to the sequence listing

b. format of material

☒

in written format

☒

in computer readable form

c. time of filing/furnishing

☒

contained in the international application as filed

☒

filed together with the international application in computer readable form

☐

furnished subsequently to this Authority for the purposes of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2004/000117

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2002/085948 A1	31.10.2002	EP 1385887 A1	04.02.2004
		US 2004/126877 A1	01.07.2004
		KR 2002/082270 A	31.10.2002
		KR 2003/082815 A	23.10.2003
WO 2003/016571 A1	27.02.2003	EP 1417344 A1	12.05.2004
		US 2003/165997 A1	04.09.2003
		CA 2457095 A1	27.02.2003